

Translation and Implementation Research in VA: The Agenda for Caregiving

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VA Research Mission

A Congressionally-mandated Veterans Health Administration mission:

“To discover knowledge and create innovations that advance the health and care of veterans and the nation.”

Remembering those we serve ...

VA Research Standards

- **Is the research based on:**
 - **Rigorous science?**
 - **The highest ethical standards?**
- **Will it produce data that will drive clinical policy?**
- **Will it translate to improved health care?**

Will it help veterans?

Rich 50 Year History

- **3 Nobel Prize winners**
- **6 Lasker Award winners**
- **Important Discoveries and Inventions**
 - ✓ **Cardiac Pacemaker**
 - ✓ **Radioimmunoassay**
 - ✓ **CT Scanner**
- **Treatments**
 - ✓ **Tuberculosis**
 - ✓ **Hypertension**
 - ✓ **Heart Failure**

VA Research Assets

- **Large, integrated health system**
- **Databases & electronic health record**
- **Engaged leadership**
- **Outstanding investigators**
- **Support from operations**
- **Academic Affiliations**
- **Training Programs**
- **Intramural funding program**

Intramural Research Program

- **VA Research is an intramural program**
- **Researchers must be employed by VA**
- **Unlike agencies such as the NIH or DoD, VA has no statutory authority to make research grants to non-VA entities**

VA Research Programs

- **VA Research and Development:**
 - **Biomedical & Laboratory Science**
 - **Clinical Science**
 - **Health Services**
 - **Rehabilitation R&D**

VA Research Partners

- **Patient Care Services**
 - **MIRECCs, GRECCs, PADRECCs**
 - **National Center for Prevention**
- **Public Health & Environmental Hazards**
- **National Center for Patient Safety**
- **Office of Quality and Performance**
- **Office of Academic Affiliations**
- **VISNs and VAMCs**

Types of Research Sponsored

- **Investigator-Initiated Research**
- **Research Career Development**
- **Cooperative Studies Program**
- **Centers of Excellence**
- **Special Initiatives (e.g., Gulf War Illnesses, PTSD, Polytrauma, & TBI)**
- **Quality Enhancement Research Initiative**

Research Areas with Caregiving Links

- **OIF/OEF/Deployment Health**
 - **Physical and mental health consequences**
- **PTSD**
 - **Identify mechanisms and promote recovery**
- **Blast-Related Injuries**
 - **Amputation & Polytrauma**
 - **Traumatic brain injury & Spinal cord injury**
 - **Burns**
 - **Complex medical complications**

Research Areas with Caregiving Links

■ **Chronic Diseases:**

- **Diabetes - 20% of VA patients have diabetes**
- **Obesity - 73% of VA patients overweight**
- **Parkinson's Disease – 41,000 veterans in US**
- **Alzheimers Disease and other aging-disorders**
- **HIV and Hepatitis C**
- **Serious mental illness**

Research Areas with Caregiving Links

- **Substance Abuse**
 - **Alcohol, tobacco, other drugs**
- **Long-Term Care**
 - **Million veterans 85 years and older by 2012**
- **Women's Health**
 - **Women are 15% of active military today; will be 10% of VA patients by 2010**
- **Health Disparities**
 - **Reducing barriers to quality care among traditionally underserved populations**



Strategy

VHA Strategy: “Eight for Excellence”

- Continuously improve health and safety**
- Provide timely and appropriate access**
- Patient-centered care & excellent service**
- Foster a culture that encourages innovation**
- Promote excellence in business practices**
- Focus research on clinical and system improvements for health**
- Enhance partnerships with affiliates**
- Promote healthy communities**

VHA R&D Initiatives

- **Strategy 6.1: Identify and assess opportunities for Genomic Medicine**
- **Strategy 6.2: Increase collaboration between Research and Operations to improve care delivery**

Genomic Medicine – why VA?

- **Most disease has a genetic component**
- **Genomic medicine's potential to improve health still unrealized**
- **VA is uniquely positioned to provide translate genomic insights into clinical care**
- **It makes good sense**

Research – Operations Collaboration

- **VHA is a unique laboratory for research translation:**
 - **Moving from pre-clinical to clinical studies**
 - **Implementing evidence into practice**
 - **Using practice to generate evidence**
- **Successful models already exist (QUERI, GRECC, MIRECC) and need to be expanded to new types of research**

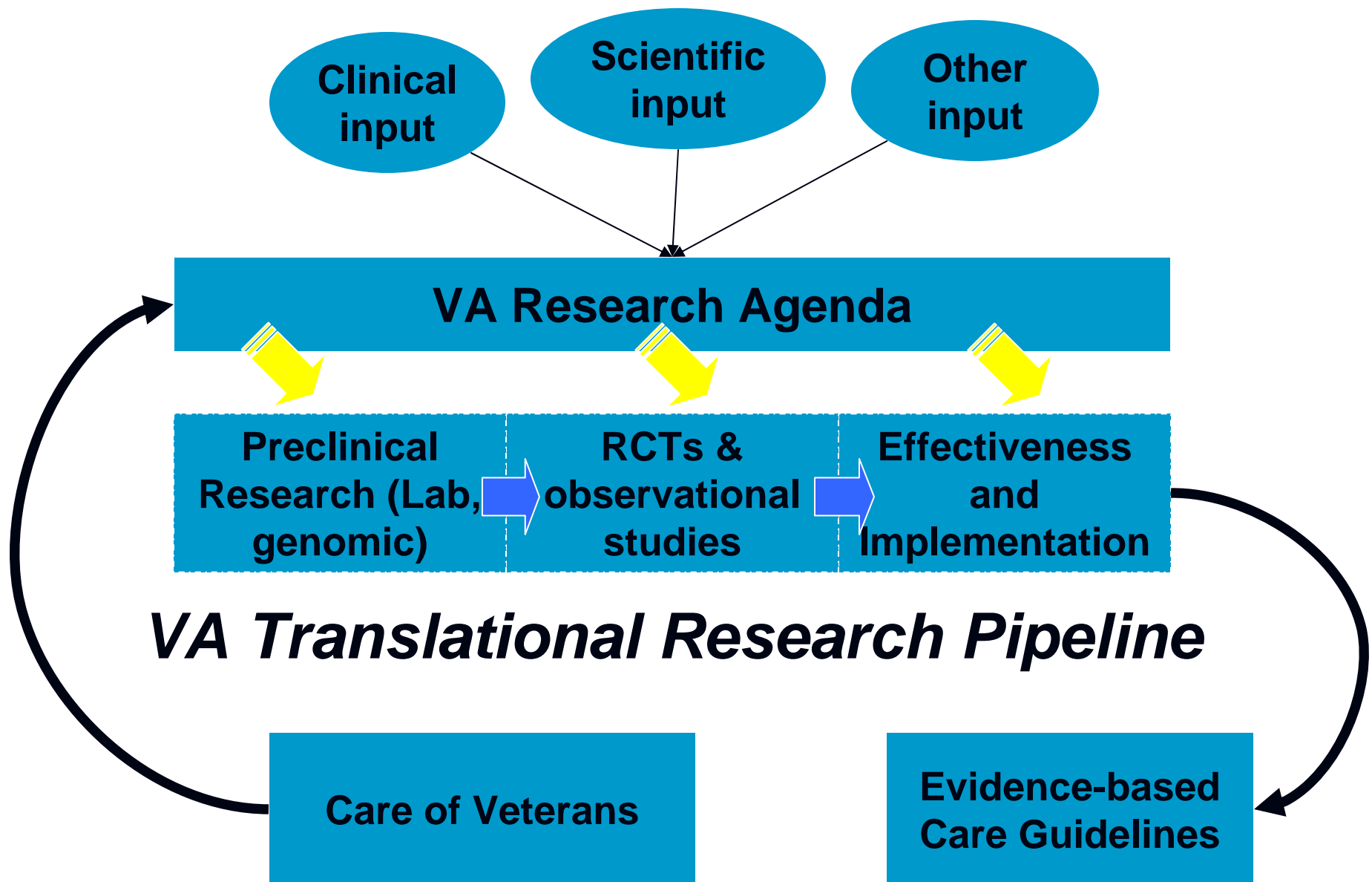
Necessary Enablers

- **Addressing human subject protection issues**
 - **Research and QI are a continuum**
- **Matching Review criteria and processes to the needs of the organization**
 - **Rigorous**
 - **Relevant**
 - **Responsive**
- **Developing implementation researchers**

Informatics: the mortar that binds

- **VA information systems have enabled HSR&D**
- **New challenges:**
 - **Enhancing the EMR**
 - **Improving Research efficiency**
 - **Setting the Research Agenda from the EMR**
 - **“Basic Science” challenges:**
 - ✓ **Genomic – Clinical correlations**
 - ✓ **Mining free text**

Translation



QUERI's Mission

To enhance the quality, outcomes and efficiency of VA health care by systematically implementing / translating evidence-based clinical practices and research findings into routine clinical practice

The Six-step QUERI Process

- 1. Identify condition**
- 2. Identify best practices**
- 3. Define existing practice patterns and variations**
- 4. Develop and implement changes**
- 5. Document outcomes and system improvements**
- 6. Document improvements in quality of life**

***QUERI* Coordinating Centers**

- **Stroke**
- **Diabetes**
- **HIV/AIDS**
- **Ischemic Heart Dz**
- **New for 2005:**
 - ***CHF***
 - ***Polytrauma***
- **Mental Health**
- **Spinal Cord Injury**
- **Substance Use Disorder**
- **Colorectal Cancer**
- **Consider for 2006:**
 - ***Acute Care***
 - ***Long Term Care***

QUERI Caregiving Initiatives

- **Patient (and family) self-management of chronic illness**
- **Special VA populations:**
 - **Spinal cord injury – Pressure ulcer prevention & care using digital image transmission**
 - **Polytrauma and Blast-related Injuries – Enhancing caregiver resilience & tracking burden**
- **Rapid response initiative: Effects of Recent Natural Disasters**

Advancing Caregiving Science

- **Build Collaboration:**
 - **QUERI Executive Committee**
 - **QUERI Implementation Research Coordinator**
- **Test models of Care Delivery:**
 - **Chronic Care Model**
 - **Collaborative Care**
- **Use Change Models/Theoretical Frameworks**
- **Publishing and Disseminating:**
 - **Online journal: Implementation Science**
 - **Web resources: www.hsrdr.research.va.gov/QUERI**



Summary



Making Translation Happen: It Takes a Health System

- **Commit to Mission: Providing high quality health care based on the best available evidence**
- **Embed the researchers within delivery system**
- **Partner with the “effector arms” including policymakers and clinical leaders**
- **Keep the work Relevant, Rigorous, Responsive**